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This listing of claims replaces all prior versions, and listings of claims in the application:

LISTING OF THE CLAIMS

- 1. (Currently Amended) A method of generating a defect error log for a disc drive storage device comprising steps of: (a) identifying defective sector addresses of defective sectors on the a disc-storage medium, wherein at least two defective sectors are adjacent to each other in a circumferential direction or in a radial direction or in both directions; (b) converting the sector addresses of adjacent defective sectors into a single defect error entry, wherein the entry does not include a calculated defect angle; and (c) storing the defect error entry in the defect error log.
- 2. (Original) The method of claim 1 further comprising: (d) converting a sector address of a standalone defective sector into another defect error entry.
- 3. (Original) The method of claim 24, wherein the converting step (b) comprises: (b)(i) circumferentially padding addresses of a predetermined number of sectors to the defective sector address, wherein the predetermined number of sectors is circumferentially adjacent the defective sector; (b)(ii) radially padding addresses of another predetermined number of sectors to the circumferentially padded sector addresses, wherein the predetermined number of sectors is radially adjacent the sectors of the circumferentially padded sector addresses such that both the padded sector addresses and the defective sector address are encoded into the defect error entry.
- 4. (Original) The method of claim 3, wherein the defect error entry includes information about at least a length of circumferentially padded sector addresses, a length of radially padded track addresses, a beginning sector address of the circumferentially padded sector addresses, and a beginning address of the radially padded track addresses.
- 5. (Original) The method of claim 2, wherein the converting step (d) comprises: (d)(i) circumferentially padding a predetermined number of sector addresses of the sectors that are circumferentially adjacent the defective sector to the defective sector address, wherein



defect error entry, wherein the adjacent defective sectors are positioned circumferentially or radially or in both directions relative to one another and wherein the entry does not include a calculated defect angle, and stores the defect error entry in the defect error log.

- 11. (Original) The system according to claim 10, wherein the conversion module further converts a sector address of a standalone defective sector into another defect error entry.
- 12. (Original) The system of claim 10, wherein the conversion module circumferentially pads addresses of a predetermined number of sectors to the defective sector address, wherein the predetermined number of sectors is circumferentially adjacent the defective sector.
- 13. (Original) The system of claim 12, wherein the conversion module radially pads addresses of another predetermined number of sectors to the circumferentially padded sector addresses, wherein the predetermined number of sectors is radially adjacent the sectors of the circumferentially padded sector addresses such that both the padded sector addresses and the defective sector address are encoded into the defect error entry.
- 14. (Original) The method of claim 13, wherein the defect error entry includes information about at least a length of circumferentially padded sector addresses, a length of radially padded track addresses, a beginning sector address of the circumferentially padded sector addresses, and a beginning address of the radially padded track addresses.
- 15. (Original) The method of claim 11, wherein the conversion module circumferentially pads a predetermined number of sector addresses of the sectors that are circumferentially adjacent the defective sector to the defective sector address, wherein both the padded sector addresses and the defective sector address are converted into the defect error entry.
- 16. (Original) The method of claim 15, wherein the defect error entry includes information about at least a length of circumferentially padded sector addresses, a length of radially padded track addresses, a beginning sector address of the circumferentially

padded sector addresses, and a beginning address of the radially padded track addresses.

- 17. (Currently Amended) A system for generating sector addresses from a defect error entry stored in a defect error log on a disc in a disc drive, wherein the defect error entry contains information about a defective sector address and padded sector addresses, the system comprising: a disc drive controller, and an expansion module, operably connected to the controller, that obtains a defect error entry in the defect error log and that determines all sector addresses encoded in the defect error entry based on the information contained in the defect error entry wherein the information includes one or more of a length of a circumferentially padded sector address, a length of a radially padded track address, a beginning sector address of the circumferentially padded sector address, and a beginning address of the radially padded track address but does not include a calculated defect angle.
- 18. (Original) A system for generating a defect error log on a disc in a disc drive comprising: a disc drive controller; and means for converting at least two sector addresses of adjacent defective sectors into a defect error entry and stores the defect error entry in the defect error log.
- 19. (Original) The system of claim 18 further comprising: means for identifying all defective sectors on the disc, wherein at least two defective sectors are adjacent to each other circumferentially or radially or in both directions.
- 20. (Original) The system according to claim 19, wherein the means for converting further converts a sector address of a standalone defective sector into another defect error entry.
- 21. (Original) The system of claim 19, wherein the means for converting circumferentially pads addresses of a predetermined number of sectors to the defective sector address, wherein the predetermined number of sectors is circumferentially adjacent the defective sector.

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- 22. (Original) The system of claim 21, wherein the means for converting radially pads addresses of another predetermined number of sectors to the circumferentially padded sector addresses, wherein the predetermined number of sectors is radially adjacent the sectors of the circumferentially padded sector addresses such that both the padded sector addresses and the defective sector address are encoded into the defect error entry.
- 23. (Original) The method of claim 22, wherein the defect error entry includes information about at least a length of circumferentially padded sector addresses, a length of radially padded track addresses, a beginning sector address of the circumferentially padded sector addresses, and a beginning address of the radially padded track addresses.
- 24. (New) The method of claim 1 wherein the adjacent defective sectors of the (b) converting step further comprise at least two defective sectors that are adjacent to each other in a circumferential direction or in a radial direction or in both directions.
- 25. (New) The method of claim 1 wherein the adjacent defective sectors of the (b) converting step further comprises at least three defective sectors that are adjacent to each other and form a non-linear curvature pattern.